

# INTERNATIONAL SEARCH REPORT

International Application No  
PCT/US2004/036881

**A. CLASSIFICATION OF SUBJECT MATTER**  
IPC 7 G06F3/16 H04L12/64 G06F17/30

According to International Patent Classification (IPC) or to both national classification and IPC

**B. FIELDS SEARCHED**

Minimum documentation searched (classification system followed by classification symbols)  
IPC 7 G06F H04L H04Q

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)  
EPO-Internal, WPI Data, PAJ

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 5 761 430 A (GROSS ET AL) 2 June 1998 (1998-06-02) column 3, line 57 - column 4, line 12 column 5, line 6 - column 7, line 6 column 10, lines 13-19 column 10, lines 42-65 figures 1,2B,3,5B,8 ----- -/-	1-67

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

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- \*A\* document defining the general state of the art which is not considered to be of particular relevance
- \*E\* earlier document but published on or after the international filing date
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- \*P\* document published prior to the international filing date but later than the priority date claimed

- \*T\* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
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- \*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
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Date of the actual completion of the international search

11 August 2005

Date of mailing of the international search report

29/08/2005

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2  
NL - 2280 HV Rijswijk  
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,  
Fax (+31-70) 340-3016

Authorized officer

De Ceulaer, B

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## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 6 483 846 B1 (HUANG JIANDONG ET AL) 19 November 2002 (2002-11-19)	1-3, 5-13, 15-19, 21-28, 30-50, 52-67
A	column 1, lines 11-27 column 2, lines 55-65 column 5, line 1 - column 6, last line figures 1, 2A, 2B	4, 14, 20, 29, 51
A	----- US 2001/004266 A1 (ITSUKAICHI MASAKATSU) 21 June 2001 (2001-06-21)  paragraphs '0020! - '0022!, '0025! figure 1 -----	1, 11, 20, 29, 34, 42, 51, 58, 61

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Information on patent family members

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Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 5761430	A	02-06-1998	AU 2453397 A	07-11-1997
			EP 0832530 A1	01-04-1998
			US 6161138 A	12-12-2000
			WO 9739556 A1	23-10-1997
			US 6339584 B1	15-01-2002
US 6483846	B1	19-11-2002	CA 2336829 A1	20-01-2000
			EP 1097551 A1	09-05-2001
			JP 2002520950 T	09-07-2002
			WO 0003521 A1	20-01-2000
US 2001004266	A1	21-06-2001	JP 2001177746 A	29-06-2001